

ABSTRACT

[Problem] With respect to powdery toner for forming a circuit described in Patent Document 1, it is complex to control a reaction system for coating a conductive material with a resin, and the condition of the resin coating significantly varies depending on the condition of the metal surface. With respect to metal toner for forming a conductive pattern described in Patent Document 2, a gaseous monomer is added while metal particles provided with a polymerization catalyst are dispersed in a gas phase to allow the polymerization to proceed on the surfaces of the particles. Therefore, large-scale facilities are required, and a reaction system is required to be highly controlled.

[Solving Means] A process for producing resin-coated metal particles, the process includes the steps of coating surfaces of copper particles with silica; allowing a polymerizable group to adsorb onto the surfaces of the silica-coated copper particles by the use of a silane coupling agent; and coating the surfaces of the silica-coated copper particles with a polymeric resin by mixing the copper particles to which the polymerizable groups adsorb, a polymerizable monomer, a polymerization initiator, and a dispersant to polymerize the polymerizable monomer and the polymerizable groups.